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9/18/02

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of: A Collinson et al.

Serial No.: 09/894,550

ART UNIT: 1645

Filed: June, 28 2001

EXAMINER: Not yet assigned

Entitled: DUAL SPECIFICITY  
ANTIBODIES AND METHODS  
OF MAKING AND USING

Attorney Docket No.: BBC-083/A/US

Assistant Commissioner for Patents  
Washington, D.C. 20231

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AUGUST 1, 2002  
Date

Angela Perno

**INFORMATION DISCLOSURE STATEMENT  
UNDER 37 CFR §§ 1.56, 1.97 AND 1.98**

Sir/Madam:

In accordance with the duty of disclosure under 37 CFR § 1.56, Applicants submit this Information Disclosure Statement pursuant to 37 CFR §§ 1.97 and 1.98 for the above-identified application. Applicants makes the following publications of record in the above-identified application.

U.S. Patent Documents

Kucherlapati, et al., August 17, 1999, U.S. Patent No. 5,939,598,

Dower et al., December 3, 1996, US Patent No. 5,580,717

McCafferty et al, October 19, 1999, U.S. Patent No. 5,969,108

#### U.S. Patent Documents (continued)

Salfeld et al. March 25, 1999, U.S. Provisional Application No. 60/126,603  
Griffiths et al., March 23, 1999, US Patent No. 5,885,793  
Stinski, December 1, 1992, U.S. Patent No. 5,168,062  
Axel et al., January 12, 1993, U.S. Patents No 5,179,017  
Schrader et al., May 6, 1997, U.S. Patent No. 5,627,052  
Juntala, May 26, 1998, U.S. Patent No. 5,756,095

#### Foreign Patent Documents

Lonberg et al., September 16, 1999, PCT Publication WO 99/45962  
McCafferty et al., January 23, 1992, PCT No. WO 92/01047,  
Winter, et al., November 26, 1992, WO 92/20791  
Garrard et al. June 11, 1992, PCT Publication No. WO 92/09690  
Knappik et al. March 6, 1997, PCTI Publication No. WO 97/08320  
Salfeld et al. August 14, 1997, International Publication No. WO 97/29131  
Wittrup et al., July 22, 1999, PCT Publication WO 99/36569.  
Iverson et al., November 5, 1998, PCT Publication WO 98/49286.  
Gray et al., October 29, 1998, PCT Publication WO 98/47343  
Salfeld et al., September 28, 2000, PCT Publication WO 00/56772  
Schrader, et al., February 20, 1992, PCT Publication WO 92/02551  
Szostak, et al, July 23, 1998, PCT Publication No. WO 98/31700  
Friedman, Mark et al. May 14, 1998, PCT Publication No. WO 98/201159  
McCafferty et al, July 10, 1991, EP 589,877  
Ladner, et al., January 9, 1989, EP 436,597

#### Other Publications

Luger TA, (1986) Immunobiol., vol 172, p 346-356.  
Karlin and Alschul, (1993) Proc. Natl. Acad. Sci USA 90:5873-77.  
Altschul, et al., (1990) J. Mol. Biol. 215:403-10.  
Altschul et al., (1997) Nucleic Acids Research 25(17):3389-3402.  
Myers and Miller, (1988) Comput. Appl. Biosci. 4:11-17.  
Jameson and Wolf, (1988)CABIOS, 4(1), 181-186.  
Kohler and Milstein (1975), Nature 256:495-497.

Other Publications (continued)

- Galfre, G. et al., (1977) *Nature* 266:550-52
- Roes, J. et al., (1995) *J. Immunol. Methods* 183:231-237.
- Lunn, M.P. et al., (2000) *J. Neurochem.* 75:404-412.
- MacQuitty, J.J. and Kay, R.M., (1992) *Science* 257:1188.
- Lonberg, N. et al., (1994) *Nature* 368:856-859.
- Fishwild, D. M. et al., (1996) *Nature Biotechnology* 14:845-851.
- Mendez, M. J. et al., (1997) *Nature Genetics* 15:146-156;
- Leader, K.A. et al., (1992) *Immunology* 76:229-234.
- Bombil, F. et al., (1996) *Immunobiol.* 195:360-375.
- Heard, C. et al., (1999) *Molec. Med.* 5:35-45.
- Eren, R. et al., (1998) *Immunology* 93:154-161.
- Reisner, Y and Dagan, S., (1998) *Trends Biotechnol.* 16:242-246.
- Clackson et al., (1991) *Nature* 352:624-628.
- Gram et al., (1992) *PNAS* 89:3576-3580.
- Barbas et al., (1991) *PNAS* 88:7978-7982.
- McCafferty et al., *Nature* (1990) 348:552-554.
- Knappik et al., (2000) *J. Mol. Biol.* 296:57-86.
- Bird et al., (1988) *Science* 242:423-426.
- Huston et al., (1988) *Proc. Natl. Acad. Sci. USA* 85:5879-5883.
- Boss, M.A. and Wood, C. R., (1985) *Immunology Today* 6:12-13).
- Kaufman, R.J. and P.A. Sharp, (1982) *Mol. Biol.* 159:601-621).
- Roberts, R.W. and Szostak, J.W., (1997) *Proc. Natl. Acad. Sci. USA* 94:12297-12302.
- Babcock, J.S. et al., (1996) *Proc. Natl. Acad. Sci. USA* 93:7843-7848.
- Holliger, P., et al., (1993) *Proc. Natl. Acad. Sci. USA* 90:6444-6448.
- Poljak, R.J., et al., (1994) *Structure* 2:1121-1123.
- Albert, A.E. et al., (1997) *J Immunol.* 159(3):1393-1402.
- Arai, K et al., (1998) *J Immunol Method.*; 217(1-2):79-85.
- Bocher, W.O. et al., (1999) *Immunology*; 96(4):634-41.
- Chamat, S. et al., (1999) *J Infect Dis.*; 180:268-77.
- Gallo, M.L. et al., (2000) *Eur J Immunol.*; 30:534-40.
- Green, L.L., (1999) *J Immunol Methods.* 10; 231(1-2):11-23.
- Green, L.L. et al., (1998) *J Exp Med.*; 188(3)483-95.

Other Publications (continued)

Harding, F.A. et al., (1995) Ann. NY Acad. Sci. 29;764:536-546.  
Herz, U. et al., (1997) Int Arch Allergy Immunol.;113(1-3):150-2.  
Hutchins, W.A. et al., (1999) Hybridoma;18(2):121-9.  
Ilan, E. et al., (1999) Hepatology;29(2):535-62.  
Lonberg, N., (1995) Int Rev Immunol.;13(1):65-93.  
Murphy, W.J. et al., (1999) Jan Clin Immunol.;90(1):22-7.  
Murphy, W.J. et al., (1996) Semin Immunol.;8:233-41.  
Nguyen, H. et al., (1997) Microbiol Immunol.;41(12):901-7.  
Smithson, S.L. et al., (1999) Mol Immunol.;36:113-24.  
Taylor, L.D. et al., (1992) Nucleic Acids Res.;20(23):6287-95.  
Yang, X.D. et al., (1999) J Leukoc Biol;66(3):401-10.  
Yoshinari, K. et al., (1998) Hybridoma;17(1):41-5.


Form PTO-1449 listing each of these documents and photocopies of each document are enclosed herewith for the Examiner's convenience.

This paper is being mailed before the mailing of a first office action on the merits in the above-identified application filed under 35 U.S.C §111 and 37 CFR §1.53(b). Pursuant to 37 CFR §1.97(b)(3), no fee is required with this submission.

Applicant does not intend to represent that any of the documents submitted herein is material prior art to this invention or that the list represents an exhaustive search of documents related to this invention.

Applicant respectfully requests that the documents submitted herein be considered and made of record in this application.

Respectfully submitted,



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